

ABSTRACT

A process for removing BOD and suspended solids from wastewater without passing through a primary clarifier or secondary aeration tank, the
5 process. During the process, raw sewage wastewater, comprising soluble BOD, insoluble BOD and suspended solids, is piped directly to a deep bed granular filter. The bed depths of deep bed filter are within a range of approximately 2.0 ft to approximately 10.0 ft. The raw sewage wastewater is filtered by filtration
10 through the deep bed filter in which the filter media is a granular media with a size range between approximately 2.0mm to 10.0mm. Backwashing the deep bed filter occurs at least once every 48 hours.